FROM K. M. Perica, J. F. Queeny Plant, Ext. 1470 INAME - LOCATION-PHONE E. L. Bostom - B2NB October 2, 1985 DATE R. F. Adland M. R/Foresman - B3NA WASTE REDUCTION PROGRAM SUBJECT F./L. Thompson REFERENCE TO :M. J. Beaudine T. E. Greenman F. B. Matthews C. H. McComb J. L/ **S**olari

The plant is on its way to meet the Corporate Environmental Guideline of eliminating the landfilling of waste by January 1, 1986. Of the thirty routinely generated solid wastes, four are now being incinerated. The remainder will be phased in by the end of the year.

One other aspect of this guideline that needs to be addressed is the overall reduction of wastes generated. If you recall, there have been past meetings with MIC and AG Management where this point was discussed. A specific plan must be developed that will demonstrate the reduction of each waste stream. This plan would then become part of a product's manufacturing goals/emphasis areas.

Attached is a list of waste streams for each of your departments along with past generation rates and other pertinent information. This should be helpful in establishing the programs. As was discussed in the Environmental Review last week, we do have some success stories with certain waste streams; these efforts need to be expanded to include all waste streams in the plant.

To streamline these waste reduction efforts I am forming a committee to establish this program on a plantwide basis. Please identify an individual from Production/TSD that will have responsibility in this area by October 11.

K. M. Perica

If you have any questions, please let me know.

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Attachments

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TCC Department

	Waste Ge	eneration I	Rate, #/100	# F.P.
Waste Stream	1981	<u>1982</u>	1983	1984
PCE Residue	14.6	12.5	12.8	13.6
DMF Solvent	0.63	0.69	1.04	1.39
TCC Floor Sweepings	1.90	1.13	1.56	1.69
DCA Residue	1.29	1.00	1.93	1.66

- Filtering of the PCPi should result in ~10% reduction in PCE Residue wastes.
- 2. DMF solvent will eventually disappear as a waste, but it will be replaced with DMSO.

Department 50

	Waste G	eneration	Rate, #/100	# F.P.
Waste Stream	<u>1981</u>	1982	1983	1984
Phosphate Ester Cake	0.28	0.28	0.25	0.14
Phosphate Ester Cartridges	0.61	0.66	0.77	0.42
Phenol Residue	9.8	3.2	4.9	6.2

- 1. On going work with the Task Force should address waste reductions efforts.
- 2. Dry process was supposed to reduce phenol residue generation.
- 3. Filter cakes are being evaluated for use in the flooring industry.

Aspirin Department

	Waste	Generation	Rate, #/100	# F.P.
Waste Stream	<u>1981</u>	<u>1982</u>	<u>1983</u>	1984
Acetic Acid Cartridges	0.03	0.01	0.01	0.02
Aspirin Floor Sweepings	0.14	0.08	0.15	0.26

1. The new vacuum system should reduce the volume of floor sweepings since more material will be recovered.

T. E. Greenman

OS Products

	Waste	Generation	Rate, #/100	# F.P.
Waste Stream	<u>1981</u>	. 1982	<u>1983</u>	1984
OS-59A Filter Cake	3.5	5.5	18.3	1.9
OS-140 Filter Cake	3.6		1.4	1.4



Aroma Esters Department

	Waste	Generation	Rate, #/100	# F.P.
Waste Stream	<u>1981</u>	. 1982	1983	1984
Aroma Filter Cake	0.7	1.6	0.2	0.2

Laboratory

	Wast	e Generati	on Rate,	#/Year
Waste Stream	1981	. <u>1982</u>	1983	1984
General Lab Waste and Glassware	91,000	90,700	88,800	86,400

1. Consider returning samples back to generating department for rework whenever possible.

Central Drumming

Waste Stream	1981	1982	1983	1984
Filter Cakes	.02	.02	.002	-
Filter Cartridges	.16	.22	.15	.18
Hydraulic Fluid (Off-spec Material)	.27	.26	.12	.24

- 1. Filter cake stream has been totally eliminated from Central Drumming.
- 2. Evaluate these hydraulic fluids for potential use or blending operations.



MALEIC BRIQUETTES DEPARIMENT

	Waste	Generation	Rate, #/100	# F.P.
Waste Stream	1981	1982	1983	1984
Maleic Floor Sweepings	0.19	0.11	0.11	0.10

1. The department modifications made over the last year should continue to reduce the volume.



Alachlor Department

•	Waste Ge	eneration 1	Rate, #/10	0 # F.P.
Waste Stream	<u>1981</u>	1982	1983	1984
AZO Residue	1.6	1.9	1.5	2.5
Alachlor Filter Cartridges	0.001	0.08 0.0	06 0.	05
Molecular Sieves		0.07	0.14	0.11
CMA	-	0.03	-	0.06
Others (off spec materials)	-	-		0.21

 AZO Residue is scheduled to be burned at the CAC oxidizer by the end of September, 1985.

"II" Building

	<u>Waste G</u>	eneration	Rate, #/100	0 # F.P.
Waste Stream	1981	1982	1983	1984
PNPT Filter Cartridges	10.04	28.4	8.3	6.3
PNPT Drainings	2.5	-	-	-
PNPT Waste	3.4	10	2.7	0.7
P Phen. Fractions	-	· · -	2.3	1.3



TSCL Department

	Waste	Generation :	Rate, #/100	# F.P.
Waste Stream	<u>1981</u>	· <u>1982</u>	<u>1983</u>	1984
TSCL Residue	8.0	7.7	8.7	7.3
p-TSCL	1.18	0.54	0.48	0.16
TS Amides	0.5	0.34	0.11	0.1

J. L. Solari

CAC Department

	Waste G	eneration	Rate, #/100	# F.P.
Waste Stream	1981	1982	1983	1984
Column Packing	0.19	0.05	-	0.09

J. L. Solari

CAC Department

	Waste	Generation	Rate, #/100	# F.P.
Waste Stream	<u>1981</u>	1982	1983	1984
Column Packing	0.19	0.05	-	0.09